Inaugural Dissertations
On the Modus Operande

Nodus Operandi of Medicines

> By William Hamlin Virginia

Paped March 12 1823

tu be Inungeral Discrepent the the for an poor and in To the esting sange of medical sciency than is no subject on which a quedic diversity of sents, ount-precase, than on the moders operande of Medicina.

While one class of physicians con tend that the remedial powers of the differ ent certicles of the Matria Medica may all be explained on the principle of nervous apo ciation, denominated in the familiar langua ge of the day Sympathy, or consent of parts; another no lef respectable, not content with the doction of Sympathy alone, declare that the principle of absorption is alike accepting for a full and clear illustration of the subject. The advocates of the sympathetic doctions alledge, that all Inedicines, in the first place produce a local impufion, which being Communicated by some, as yet, mysterious aging, to more distant parts thrown them into actions consponding with the nature

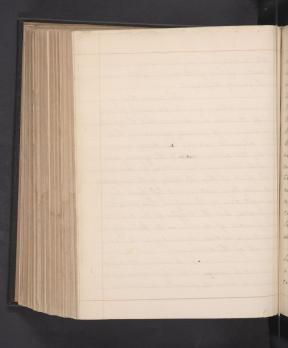
Com

of the article, and in these counts parts, the entire effects of the medicines administrated

are frequently displayed

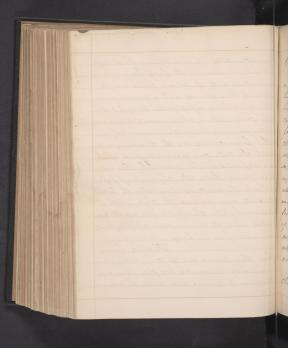
folgoinany adout to a limited extent the sympathite Hoteling but contine that the sympathite the interest of medicine in principally effects by their keing absorbed into the countries system, and by that dystem landed to the second party to which their expection cactions are the sympostic caction are descripted to the first of them doctring or the sympostic caction of the sympostic caction of the sympostic caction the first of the Architection or the Subject the Institute consideration that the Refigher of the Institute that produce is the discovering of many formation of the doctrine.

to will not be foreign to the object of our mysing Garrenity to motion the process of dignition



and afinitation. The food distinct for the sufper at and noninhment of the body, being masterate and mixed with the salica, is carried into the Stomach there themeots with a secretion from the mull blood refels of the stomach, called the gastric fluid, which converts it into one homo geneous substance descominated chyme this being carried into the clasedenum unites with the bile and parecualic faire which are deposited in this intistine by their respec troe glunds, thence the chymous map paper on into the much intesting when the lacted separate and take up the chyle, which is carried by the absorbent system into the circu lation, while the excumentation matter is finally eliminated from the body.

bun then curied into the circulatory flack is condently be anounted into pure blood and continue to now he having



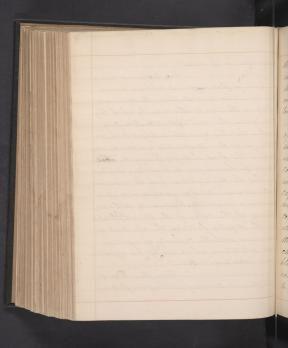
functions of the system.

Our anatomical research

es teach in that medicinal substances to reach the Circulation must also pressue the same route, because there are no other means by which they can attain the same distinction. It ampaily follows that they must also be subject to the same Changes of decomposition and new combination which the food undagory because the andy sis of the human fluids, have long since tages in that the chyle obtained from the most diouse aliments never exhibits any warity in its appear ance and composition. Independently of this unis formity of the rection of the stomach the whole of the digestive function, the absorbents are endowed with the capacity of rejecting all substances which rine of an offenew and deleterious mature.

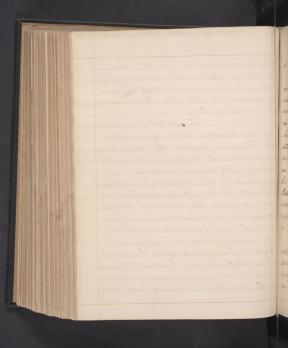
From there laws of

the animal economy it therefore, follows,



that no substance on enter the circulation in their primitive state or without having their original property changes, or so modified that their reservous chance has an entirely lost

The opential power however of very remedial article depends upon its obnoxious property, the article becoming inest when this property is distroyed, Consignently so soon as medicines are rendered by the digestive functions capable of being taken up by the ab Sorbent- System, their armedial character ceases. This argument continues to gain Strength in a proguefice investigation of the subject for we not only find the chyle a homogeneous fluid but wenther blood, thelf, the very location of the rem edial power of netice medicines according Is the most strenesous advocats for the doction



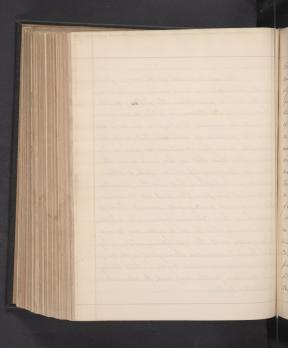
of absorption

The verifit of toidens in suff out of the position is touchedming. It is considered as an established fast by the considered and beauty on the sandwater hade on febicle therease, and Lind who has toutten so ally on the therease of het claim aty the homogeneous nature of the blood in his excellent tradient to be the of in his excellent tradient to be the body of a scorbatic patient is to perform the body of a scorbatic patient of the the line attiment to homogeneous waters proceeding the line approach of the along the thouse you wastery proceeding the approach of the attiment of healthy blood amid the savages of distance

The son disposed on might file the space attack for a disposation with gue taking of authority on the point had after caling those Die Majory of the medical propping in dome it superpluous to adding additional

1 1 & within so all on So for dos widence

The establishment of the single fact of the homogeneous and unchangable nature of the blove must show the falling of the humoral doctrine. In if there be any ground on which the advocates of absorption can vest, it must be on the detection of medicinal articles in the fluid, but where do soe find conclusive evidence on they point. It is true that we hear much about the odour of Camphor apopoetida, Garlie, + other odoriferous substances, but does this prove the doctrine of absorption? We think not the knowthat odown not unfrequently penetrate through what have been Considered impermeable substance in The conceive that the whole system may become impregnated with these odorifeious substances by their being transmitted through it in the same very as through inanimate matter, without having my connection particularly with the absorbent or Circulatory Systems



But leaving these odoriferous articles out of the question, what well conducted and conclusive an alysis of the blood have detected in it, in their proper form any of the active remedial articles We must concede however that coloning mutter, of Madder and Rhubart has been discovered in the Serum of the blood, that this is not until the blood may be regarded as having undergone a partial decomposition for what are the circumstances under which this detection takes placed The blood in the first place is withdrawn from the map of circulating fluids, and thereby removed from the vital energy of the system, their energies no longer operating, it separates into serum and congulable lymph which may be Considered as the incipient state of decome position, and it is not until after this Stage that these coloning principles are

low Oha A source of great mer in proceeding rand report on the subject result from not heping our attention Constantly (livested the grand the time of him one dead matter and the very diverse nature of the second law, which govern them.

Sictory are entirely clustered from them of Chamilia that one should studyed ourseloss to tricked to the opening to troplain a Chemical toper mont on these principles which appeared in exclusions, to retailing whe get much seeme are constantly would be for the purpose of illustrating the phenonemum of tritile actions.

The proof of the vital surging has never been fatty appreciated, but to far on their subject has been investigated the result, continued in regard to its astern

itu spe. tary these whing effects. This soe must be convinced of from a moments refliction on the single fact that the most soled substances may be dipoloca entirely by the gastice juice, while the tender couts of the stomade remain uninfound, and the mest tender and delicately arganized living being sport in it with impanily to themselves.

Then considerations enable in to explain, without abo ndoning our theory, those facts which have bun supp. one against the doctions, we are vindicating deduced from the detection of certain articles in the secretion

and excutions.

During the process of digistion, these articles have been decomposed and their elemen tary principly carried and the circulation, while These they were subject to the influence of the Vital energy, and prevented from combining, but no sooner are they removed beyond the Spline of this wital action, then the laws of Chemistry again provail and the original combi

to ay арре nations are re-established.

The revisions the labours of our medical passacoper, the are impreprise with considered and rejust white mattered on the great roates of line and materials which have been represent in the projection of experiences on dear matter to identificate the principles and se an constant to apply the charge to them of the mertital trapply the charge to these of the mertital transfer the profession of the profession them the mertital

It was to

application of law forum to estately for the Undation of Meched planoming which thereon a said of obscurity, around the otherwise span and Jahouer of Bouchasce and Sydichom.

One of the Stronger arguments which the Hum orders sent the doctrine on in the support affects which result from the

totaduation of madicinal substance mo the blood suffels of living commaly was if full excellence could be given to the reporter of some of the experimentation, better more would be required to confirm and whatlish the humanal doctions.

loho could

doubt but that milliones apported on the system by being absorbed into the cerculation when their premisery the summer expects as went from their witernal administration might be obtained by injecting exits a social a small grantity of any given actions.

The fallowy house which allend most experiments is consideredly highetened by their being performed on leving animals and we know in circumstances under which fallowing imperferors would be more likely to ocean than in tracing the effects of med circs on tortund, mangled, and afflicted



animal.

The mimal functions it must be admited, are questly under the influence of Corporal suffering her have seen the deliterious effects of Opium suspended by seous casting ation, and we shall encleavour to show that most of the effects which have been attributed to sejected medicines, may be justly assessed to the vidence with which they were administered The huve sure Copious discharges of faces and wine from cats produced from quat alanny and have celso withefer the same discharge from a servant boy in consignme of a seare whipping. Long and profound dits of fair Ainy, not unfrequently occur in persons of necous temperaments in consequence of sudder and quat alamy.

Some informed by a quatterium of the mexical Clap (Mr Powe) from South bardina

14

on whose varacity I very with the most implicit confidure. that he knew obstrate constitution in a case of chil is completely removed, when all the usual remodies had proved ineffectual, by a sudden and violent alumy purposely induced by the phy sunning This patient had been attended by other physician, when the one in question was consuled Who on interny the patients apartement threw off his cout and some that if the patient did not to a custe that he would kie him. The poor bellow terribly affrighted immediately called for the Churcher und had a copious discharge from the bowels. The inspection of a foul liles and in some persons, and particularly those unaccontomed to without such spectacles not confriquently prod wer voniting and our sympathetic feelings are so powerful in some instances that in witnessing great imotions of grief or foy we are not emps quently expected in a simular mount.

Our medical

both abound with cases of Epilipsing and other spanwich and tournature discount which have been preduced exclusively by suing other labour under affections of a similar nature.

In additions .

to the where cities facts and enganems, we as incurred to alterbate, the effects related by experimentalists hather to the severity of the operations than it may premise a citien of the same harding than their informing us that the same hardine under like circumstance produces defending offect, that it sometimes puryey sometimes has an imite effect and at other times only gon rally decauge the action of the system by including conventions, and the spoonedic actions.

With the view of folyling the duty which rejoins the preparation of on mergene deportation for on mergene deportation for have been entercounted to present some of facts and massing, which we conceive song



be address in favour of the sympathitic declines of the modern Operands of the impressed manner in which the Consciousness of the impressed manner in which the truty has been executed, for authorite the result of our labour immediately this property of the property of t

Wm Hamlin Virginia

